Quanzhou Giant Alarm System Co.LTD
Tel No.:(86-595)22499516
Fax No.:(86-595)22492516
Email**:** .autogate02@jujiang.net.cn
Website**:** www.cngiant.net

Automatic Barrier Gate Opener System

Installer and User's Manual

Automatic Barrier Gate Opener System is designed for vehicular traffic only!

CAUTION:

Automatic Barrier Gate Opener System is powerful while working. It may cause seriously body injury or death to pedestrians if they walk through/around the automatic barrier inappropriately. Should have other separate walkway for pedestrians.

1. Every time must cut off power supply before starting installation, operation or maintenance.
2. The Automatic Barrier System should be earthed and earth leakage breaker is necessary in power supply.
3. Do not change the inside wirings.
4. If power cut occurs, please switch off the power supply at first, then opening door of cabinet to open or close the barrier manually by rotating the handle.
5. The balance of the boom and spring already been well adjusted to optimum before out of the factory. If it is not necessary, do not add the length or weight of boom in case of dangers occurred. If the adjusting in necessary please ask your local dealers or installers.
6. All limit switches(both mechanical limit switch and photoelectric limit switch) already been well adjusted to optimum. Do not adjust any limit switch unless it is necessary.
7. Keep the wireless control system (push-button, transmitters etc) out of the reach of children.
8. Use transmitters and push-button to control the automatic barrier only when you can see the operation of the gate clearly.
9. Do not open the door or cover of cabinet when the motor is working.
10. Keep children away from the automatic barrier system.

Quanzhou Giant Alarm System Co.LTD
Tel No.:(86-595)22499516
Fax No.:(86-595)22492516
Email**:** .autogate02@jujiang.net.cn
Website**:** www.cngiant.net

1. Technical Specifications

Power Supply	AC220V±10％50HZ/60HZ or AC110V±10％50HZ/60HZ
Working Temperature	-20℃～55℃
Power of Motor	150W
Speed of Motor	1400r/m
Relative Humidity	≤90%
Max. Boom Length	6M
External Dimensions	103cm* 37cm * 31cm
Remote Control Distance	≤50M
Net Weight	50KG （not including the lever）

2. Installation and adjusting

2.1. Install the machine on the ground (**Fig.1**)

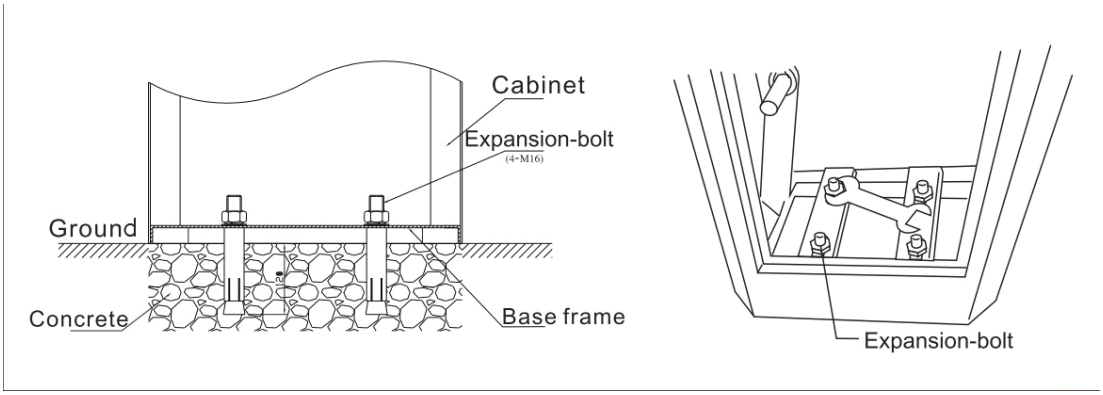


Fig.1

2.2. Install boom (**Fig.2-Fig.3**)

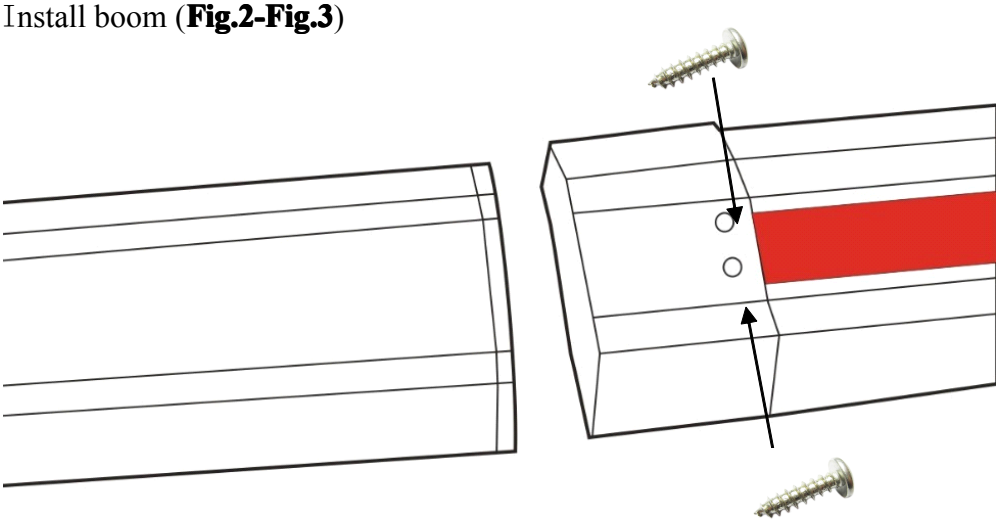


Fig.2

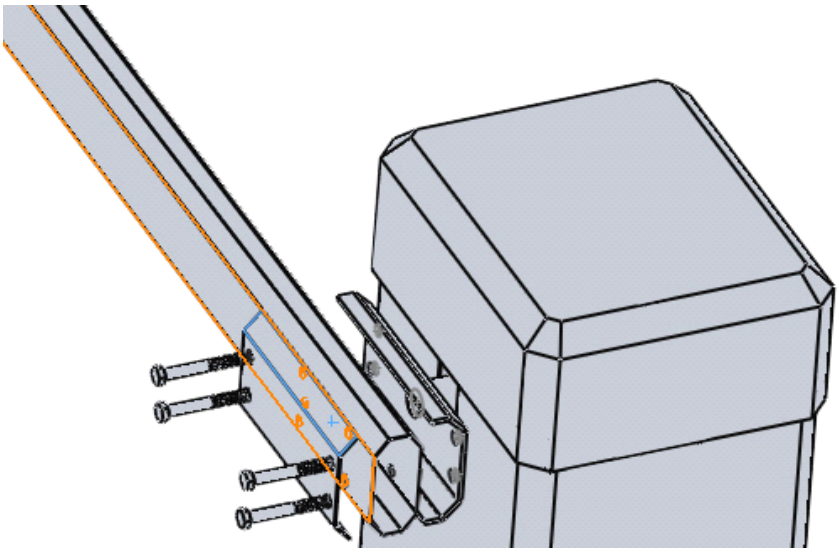


Fig.3

2.3. Manually Operation when power cut occurs (**Fig.4**)

If power cut occurs, please switch off the power supply at first, then opening door of cabinet to open the barrier completely by rotating handle.

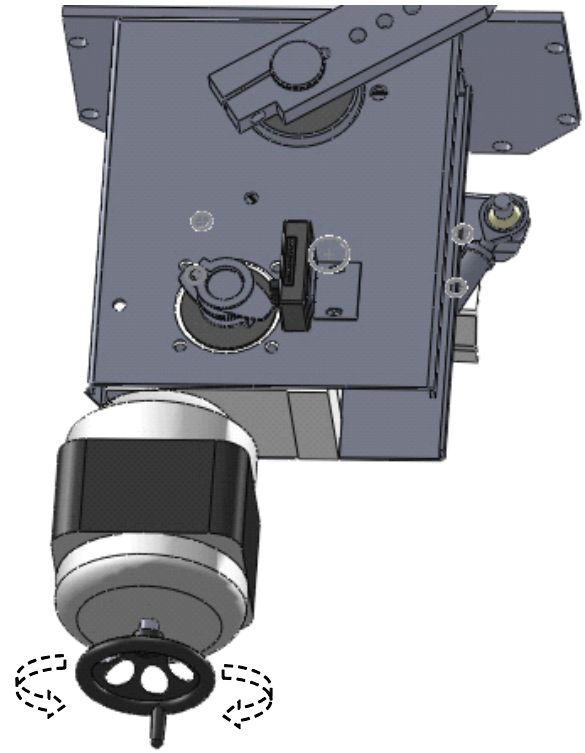


Fig.4

3. Adjust the limit switch (Fig.5)

All limit switches (both mechanical limit switch and photoelectric limit switch) already been well adjusted to optimum. It can be adjusted by manually turning the limit leaf-blade.

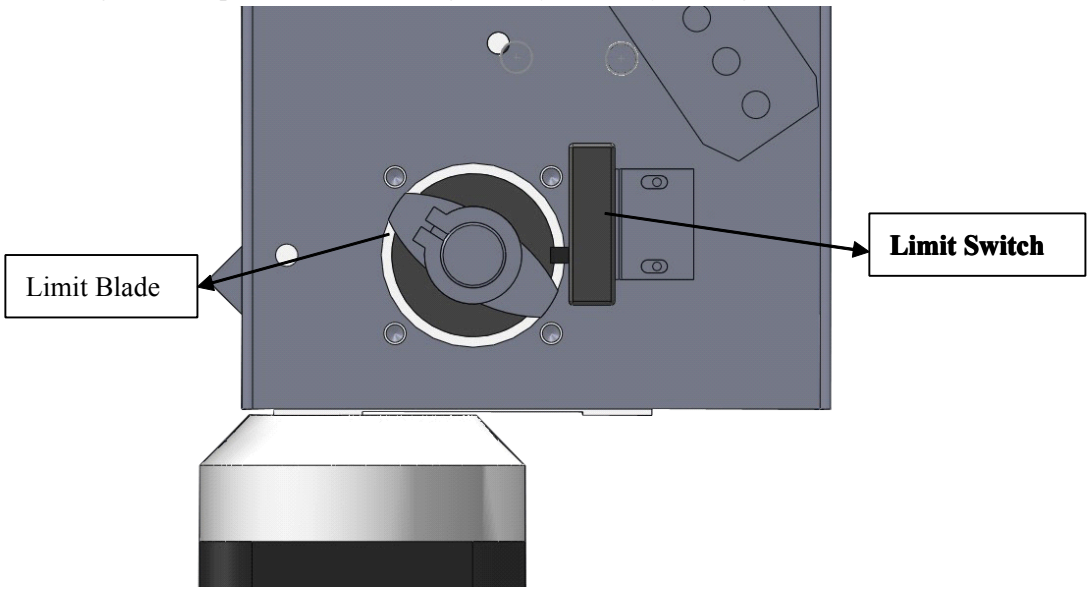


Fig.5

4. Adjust Spring (Fig.6)

If the boom is shaking while if it falling down, use the wrench to tighten the nut of spring; if the boom is shaking while rising up, use the wrench to loosen the nut of spring.

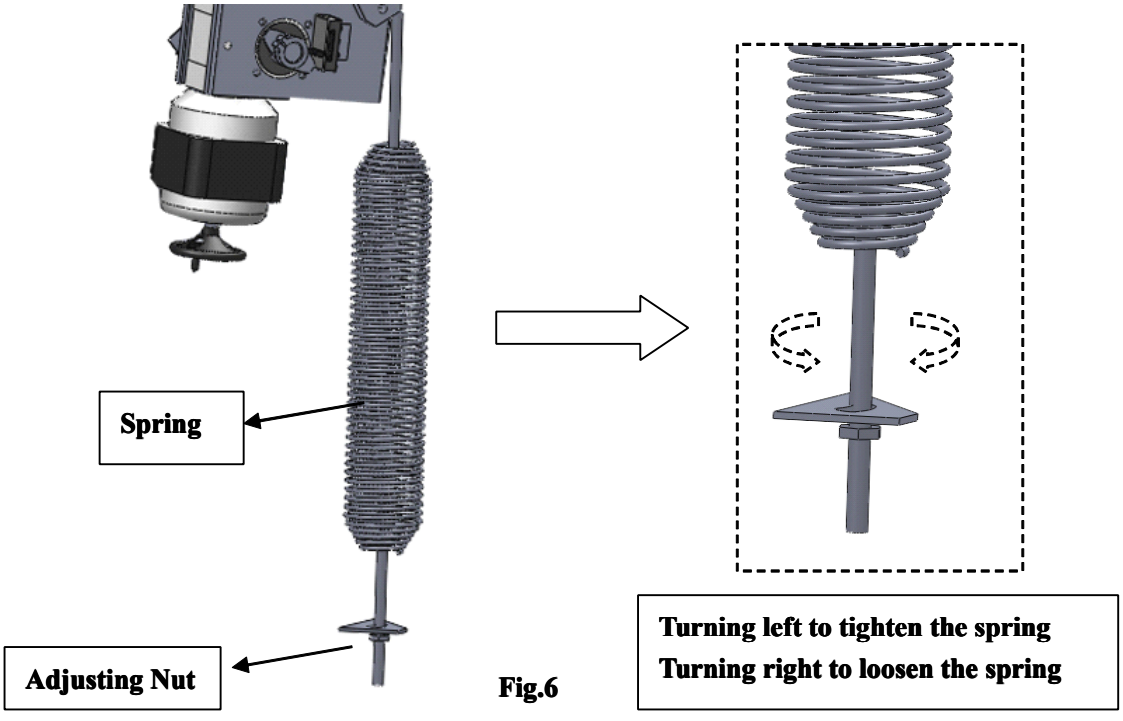


Fig.6

5. Adjust Vertical or Horizontal Of the Boom

This already well adjusted to optimum before out of the factory. But it has to be re-adjusted if the length of the boom changed.

5.1. Boom is shorter(**Fig.7-Fig.8**)

The boom will go upwards after it becomes shorter. Please note that our standard spring is optmum for length of boom from 5M-6M. If the length of boom becomes short, the value of the spring should be decreased.

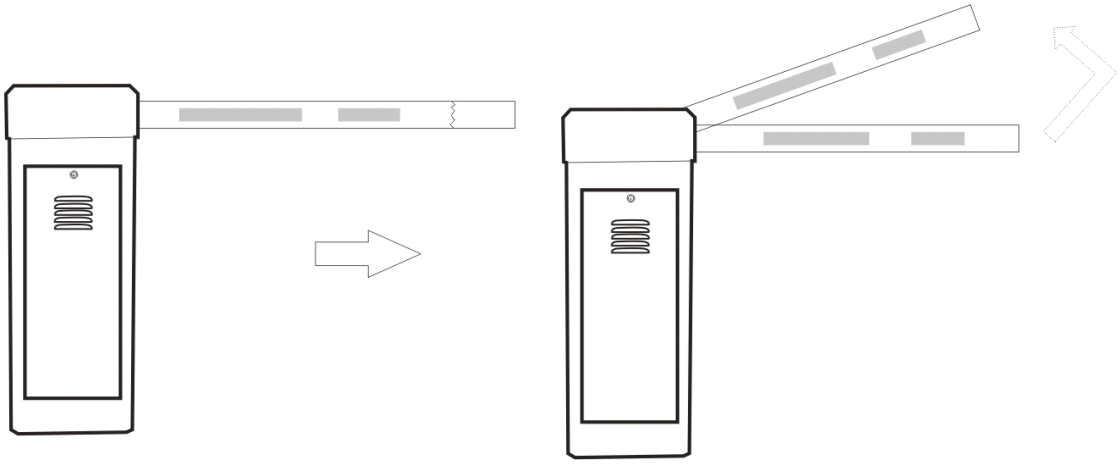


Fig.7

Also can do the fine tuning to tune the verticle or horizontal of the boom.

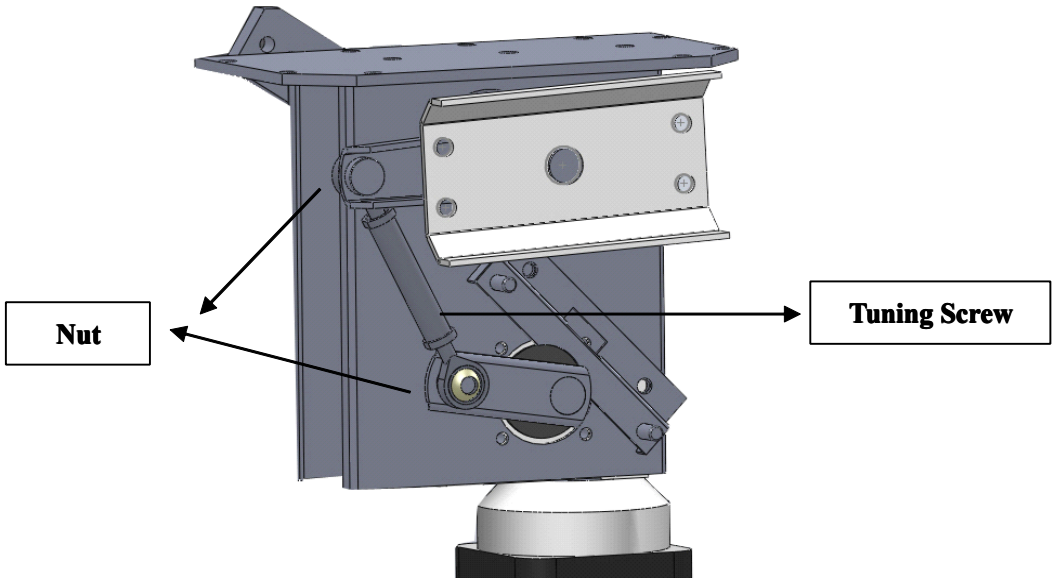


Fig.8

5.2. Boom is longer(**Fig9-Fig10**)

The boom will go downwards after it becomes longer. Please note that our standard spring is optimum for length of boom from 5M-6M. As the maximum length of the boom is 6M, so this situation may not occur. Installer or user can add the value of spring according if it is necessary.

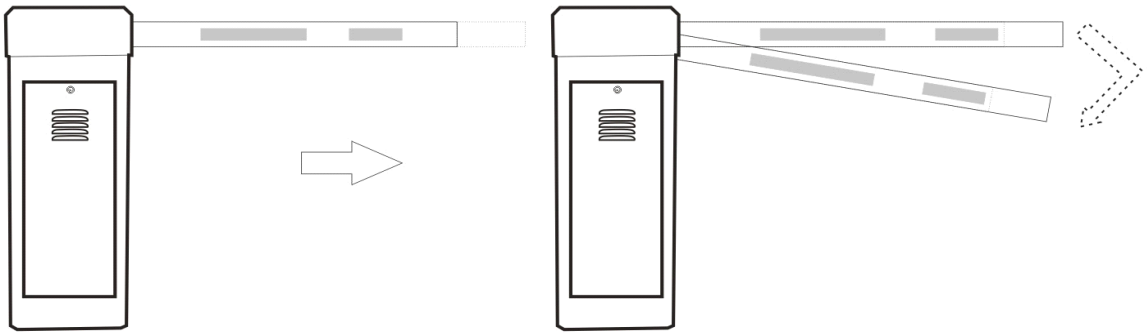


Fig.9

Also can do the fine tuning to tune the verticle or horizontal of the boom.

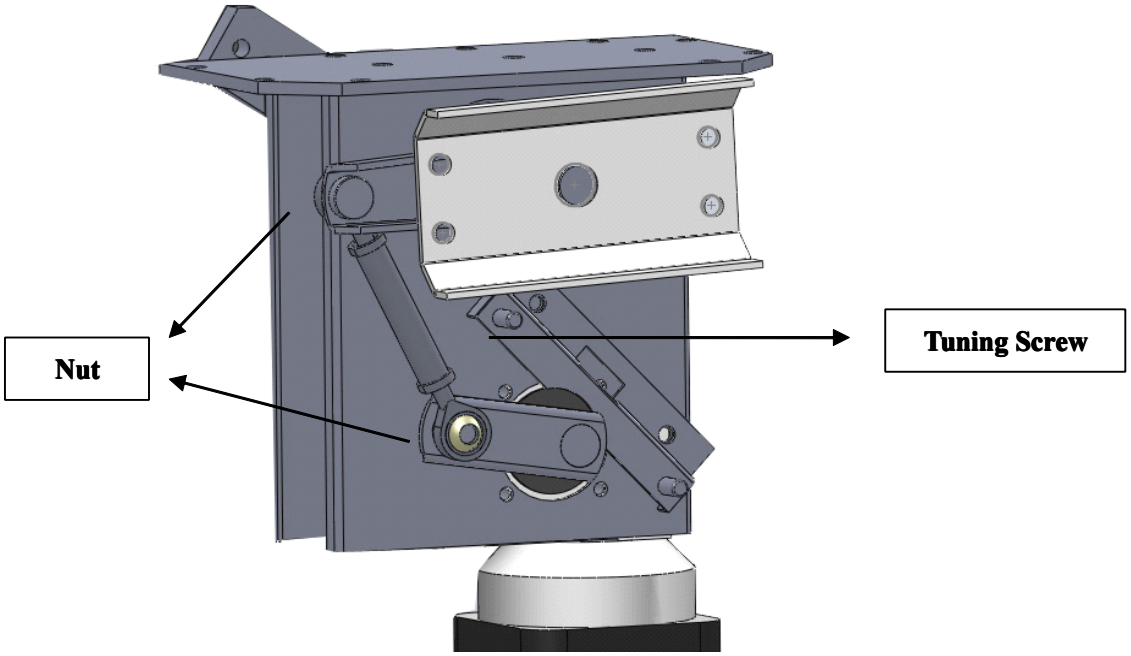
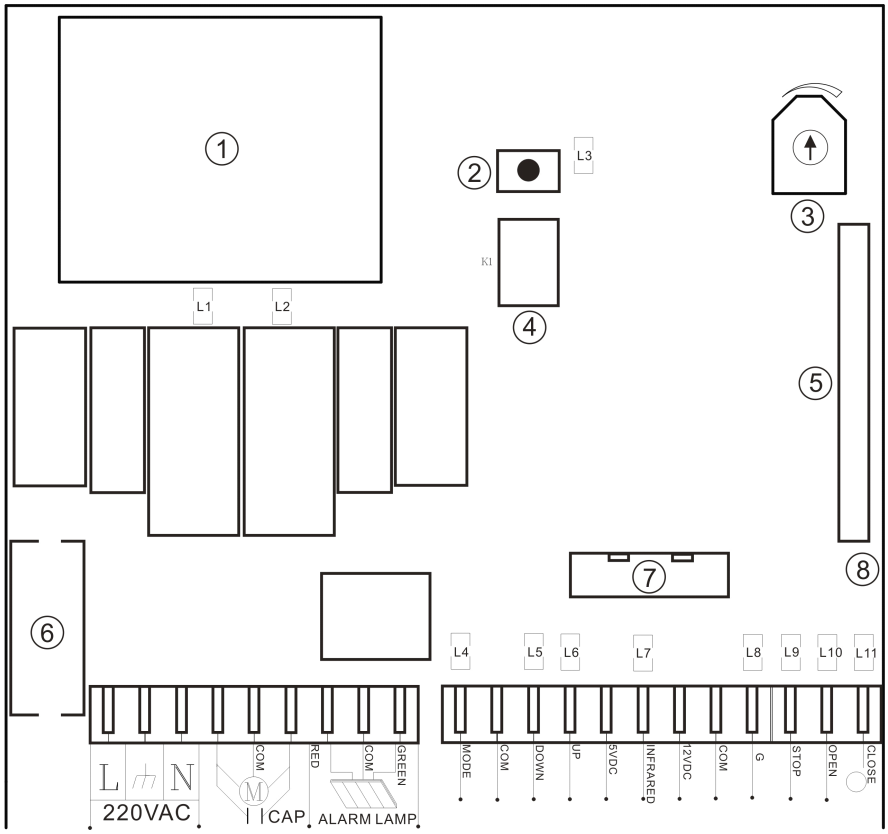


Fig.10

6. Wiring and Adjusting Electrical Part

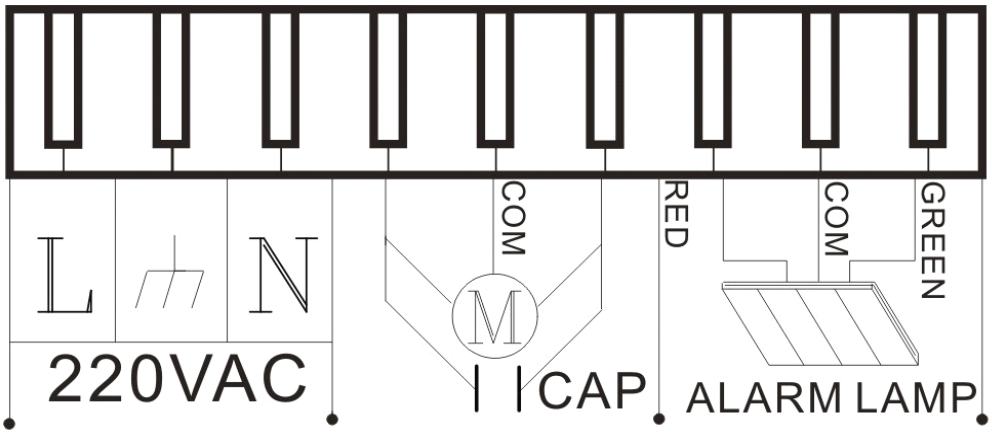
Caution: Always cut off the power before doing any wiring or adjusting in electrical part.

6.1. Wiring For Control Panel

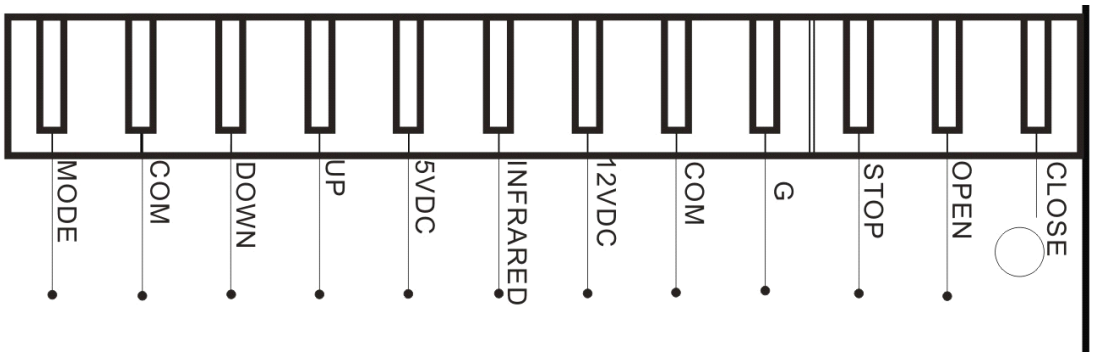


P1 **P2**

①: **Transformer**
②: **Code Learning Button**
③: **Working Times Potentiometer**
④: **Jumper for motor reverse function**
⑤: **Receiver Module Pluger**
⑥: **6.3A Fuse**
⑦: **External Push Button Pluger**
⑧: **Antenna Terminal**



P1



P2

①: **Transformer**
②: **Code Learning Button**
③: **Working Times Potentiometer**
④: **Jumper for motor reverse function**
⑤: **Receiver Module Pluger**
⑥: **6.3A Fuse**
⑦: **External Push Button Pluger**
⑧: **Antenna Terminal**

L1	Boom opened	**L7**	Photo-cell.
L2	Boom closed	**L8**	Loop Detector
L3	Code-learning	**L9**	Stop Status
L4	Working Mode Switching	**L10**	Open Status
L5	Downwards Limit Switch	**L11**	Close Status
L6	Upwards Limit Switch		

7. Transmitters' code setting

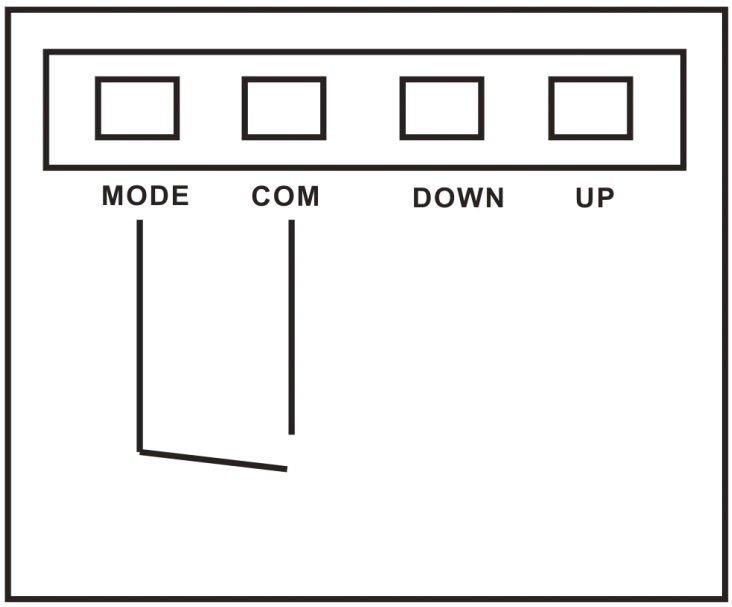
7.1. Transmitter programmed

Press "Code Learning" button, the code-learning LED indicator lights up, then press any button of the transmitters which you are going it program till the code-learning LED indicator goes off. Now the transmitter programmed. Other transmitters can be programmed as same as this way. It can program up to 30 transmitters.

7.2. Transmitters' code removing

Press and hold code-learning button for 5 seconds, the code-learning LED flashes 5 times, all the programmed transmitters removed.

7.3. Working Mode Switching 。



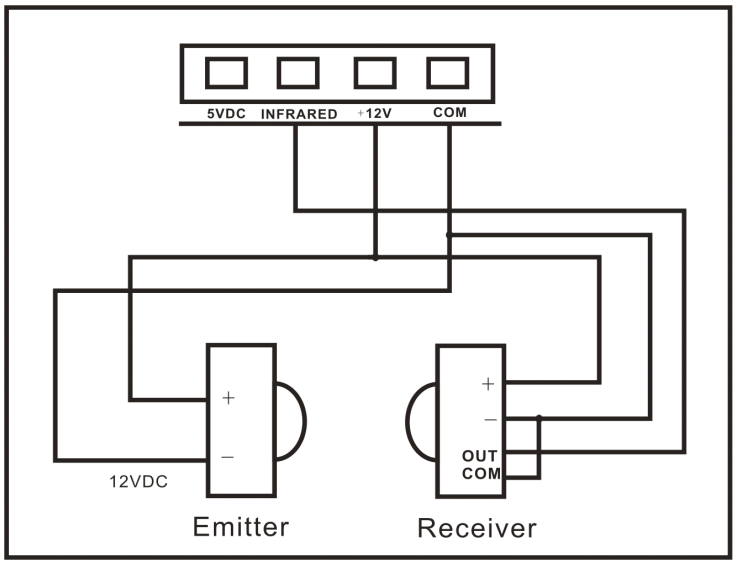
It refers to when you use wireless remote control to operate the barrier gate. There are two types of working mode: three buttons working mode or single button working mode. In the three buttons working mode, for example, button "A" operates "open" button "B" operates "stop" and button "C" operates "close". In the single button working mode, there is only one button works cycle-operation "open-stop-close". It can be switched as per users' preferences by using wire to short-circuit the terminal "mode" and "com" (see fig), about 5 seconds later, the LED indicator flashes, the working mode has been switched.

8. Safety Devices(Optional)

8.1. Photocell

When the gate is open, if any objects or persons sensed in the sensing range of photocell, the gates keep open status.

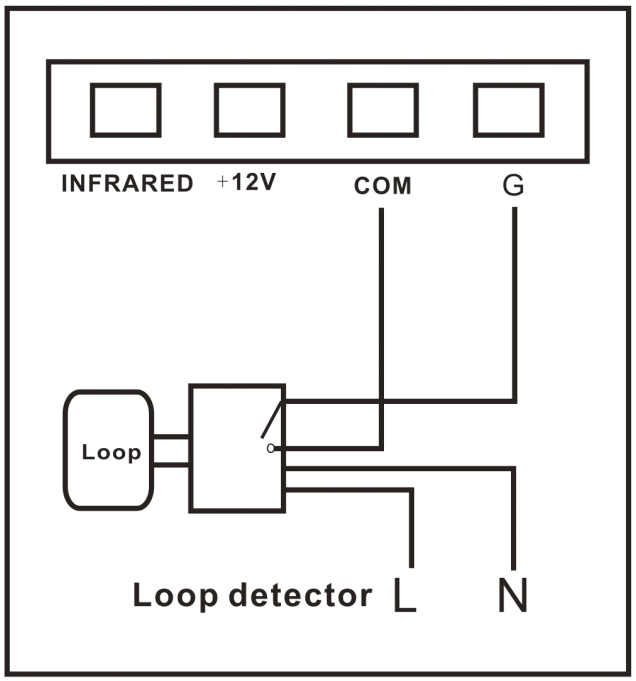
When the gate is close, if any objects or persons sensed in the sensing range of photocell, the gates will open immediately.



8.2. Loop Detector

If any objects or persons sensed in the sensing range, the gate keeps open status.

After the objects or persons pass through the range of sensing range, the gate will close immediately.



Note: If auto-closing function is enabled, when the objects or persons pass through sensing range, the gate will close automatically after reaching the delay time which set earlier. The delay time can be set from 1—99 seconds.

9. Trouble Shooting

Problem	Possible causes	Repair method
Motor works but boom do not work	1.Check the motor wiring connection is correct or not 2.Check each limit connection is correct or not 3.Check the capacitor connect up or not.	1.Check the motor wiring is strong and reliable 2.Correct wiring connection from motor to control panel is red (UP),white(COM),yellow (DOWN).Limit wiring: black (COM),orange(DOWN),green (UP),red (5VDC) 3.Connect two capacitor wirings with motor wirings for up and down.
Boom vibrates too much during falling.	1.Spring is out of balance 2.Boom screws is loose. 3.Barrier house do not been fixed well.	1. Please replace spring according spring list and adjust spring in a best level. 2. Fasten screws in the boom. 3.Fasten fang bolt for fixing barrier house
Boom stops in the middle during falling.	1.Not adjust limit switch well 2.Spring is out of force	1.Check the limit wire then connect in a right place and adjust limit switch

		2.Replace spring or adjust spring force.
Without anti-break	Loop detector and photocell broken or no connection in a right place	Replace loop detector and photocell,then connect the wire carefully according wiring diagram
Boom is not in vertical or horizontal level when up and down	Not adjust the limit well	Make the boom in vertical or horizontal level,then put the light barrier in the middle of the photoelectric limit switch since light is on during induction . Boom is down in place when Red light is on ,and up in place when green light is on.